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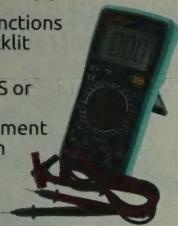
* Restrictions Apply

Talking Digital Multimeter

35042 ME | \$39.95 ea

10 Functions
& Backlit

True RMS or
Average
Measurement
Selection



12VDC Lighted Rocker

35111 SW | \$5.95 ea

SPST



10 Turn Counting Knob

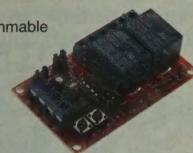
34915 KN | \$3.95 ea



Dual 5V Relay Module

35070 MP | \$12.95 ea

Programmable
Modes



Pigtail Power Cord

35094 CB | \$2.95 ea



RGB Backlight 2X16 LCD Display

35066 OP | \$9.95 ea



2X16 LCD Serial Display

35054 OP | \$9.95 ea



USB-TTL Converter

35030 MP | \$4.95 ea



5VDC 3A Plug Supply

34291 PS
\$2.95 ea



5V Step Motor

35032 MS | \$12.95 ea

NEMA 23



12VDC 5A Power Supply

34970 PS | \$11.95 ea



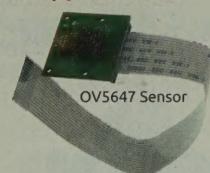
12VDC Lighted Rocker

34835 SW | \$1.39 ea



Raspberry-Pi 5M Pixel Camera Module

33277 MP | \$14.95 ea



24VDC 4A Power Supply

34972 PS | \$12.95 ea

Select 110/220V Input



12VDC Battery Monitor

34899 ME
\$19.95 ea

LED Bargraph



Push Button Switch with Metal Button

SPST-NO

35103 SW Red

35104 SW Gold

35105 SW Blue

35106 SW Black

54.95 ea

150A 200PIV RECTIFIER



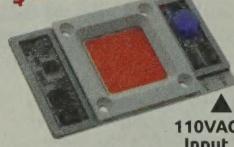
34993 DI
\$16.95 ea

50W LED Modules

34766 OP Grow Pink

Require
Heatsink

\$12.95 ea



Our Most Popular Products

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Uno-R3 Compatible Micro Controller Kit

30297 MP | \$19.95 ea

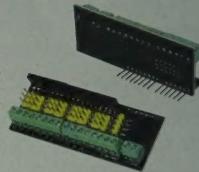
Includes Power Supply & USB Cable
Accepts all Plug-in modules for Arduino controller. Information & Freeware available through www.arduino.cc.en and others on-line. Includes Power Supply & USB Cable Accepts all Plug-in modules for Arduino controller. Information & Freeware available through www.arduino.cc.en and others on-line.

**UNO-R3 Protective Case**

32182 MP | \$2.95 ea

**UNO Terminal Shield Board**

32799 MP | \$5.95 ea

**Perboard Terminal Arduino Compatible Shield**

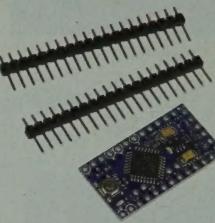
32797 MP | \$5.95 ea

**Solderless Breadboard, Arduino Compatible Shield**

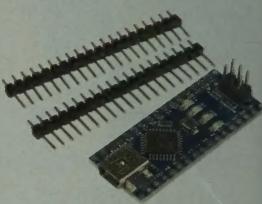
32400 MP | \$8.95 ea

**Pro Mini Compatible Micro Controller**

31355 MP | \$4.95 ea

**Nano V3 Compatible Micro Controller**

31354 MP | \$9.95 ea

**Nano Terminal Shield Board**

32796 MP | \$4.95 ea

**Nano Shield W/ Wireless Expansion**

33324 MP | \$8.95 ea



Arduino ProMini Clone with headers & Wider Voltage Range. Get the same power as the Uno, or Nano in a low cost and small footprint. Features a Atmega328, 8bit, 16MHz processor, built in 5V regulator, 8 analog inputs and up to 14 digital I/O pins. Information & Freeware available through www.arduino.cc.en and others on-line.

Arduino ProMini Clone with headers & Wider Voltage Range. Get the same power as the Uno, or Nano in a low cost and small footprint. Features a Atmega328, 8bit, 16MHz processor, built in 5V regulator, 8 analog inputs and up to 14 digital I/O pins. Information & Freeware available through www.arduino.cc.en and others on-line.

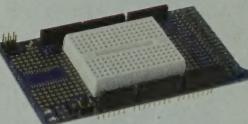
Mega R3 Compatible Controller

33311 MP | \$19.95 ea

Compatible with most existing Duemilanove & Dieci program, shield & IDEs The Mega is major step up in processing power. Information & Freeware available through, forums, www.arduino.cc.en, & others on-line.

**Mega Prototyping Breadboard**

31547 MP | \$9.95 ea

**Mega I/O Sensor Shield V2.0**

31060 MP | \$12.95 ea

**Iduino Starter Upgrade Kit**

33312 MP | \$39.95 ea

This is a upgrade version UNO R3 compatible starter kit, with added components to achieve more features and experiments. Includes Links to Data sheets, Information & Freeware available through, forums, www.arduino.cc.en, & others on-line.

**Iduino Rfid Starter Upgrade Kit**

33313 MP | \$55.95 ea

This is a UNO R3 compatible starter kit, with added components for RFID. Includes Links to Data sheets and Information, available through, forums, www.arduino.cc.en, & others on-line.

**65 Pcs. Molded Jumper Set**

30116 PL | \$3.95 ea

**40 Pcs. Male To Male Jumper Set**

31217 PL | \$3.95 ea

**40 Pcs. Female To Female Jumper Set**

30117 PL | \$3.95 ea

**40 Pcs. Male To Female Jumper Set**

31218 PL | \$2.72 ea



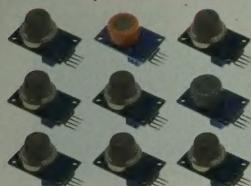
Arduino 37 pc. Sensor Starter Kit

33317 MP | \$35.95 ea

Sensor kit for general use with Arduinos and other microcontrollers. This 37pc. kit is ideal for Classrooms or Instructional Labs. Includes Handy latching compartment storage box and Experimenters Manual covering Sketches & use with the Arduino UNO

**9 pcs. Gas Sensor Kit**

32507 MP | \$24.95 set



MQ-Series gas sensors coupled with a LM393 IC. 4 pin connections. Can be interfaced to an Arduino or other micro controllers. Includes 1 ea Sensor module

MQ-2 Combustable Gas Sensor
MQ-3 Ethanol Alcohol Sensor
MQ-4 Methane Gas Sensor
MQ-5 Natural Gas Sensor
MQ-6 Propane-Butane Sensor
MQ-7 Carbon Monoxide Sensor
MQ-8 Hydrogen Gas Sensor
MQ-9 Methane-Propane Sensor
MQ-135 Air Quality Sensor

2.4 GHz WIRELESS TRANSCEIVER

31572 MP | \$3.95 ea

**5V Gearhead Stepper and ULN2003 Driver Board**

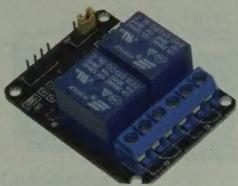
31592 MP | \$4.95 ea

**Humidity Sensor**

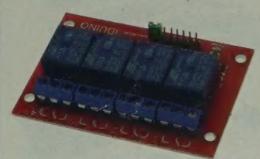
30287 MP | \$5.95 ea

**5V Dual Relay Board**

32442 MP | \$3.95 ea

**12V Quad Relay Board, Isolated**

33330 MP | \$7.95 ea

**Raspberry-Pi-2B Starter Set**

32670 MP | \$75.95 ea

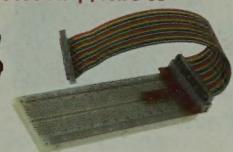
Raspberry-Pi-2B Controller with Heavy Duty Aluminum Case, Fan & Power Supply Full featured 32 bit, Raspberry-Pi 2 Model B. This small card sized microcomputer Processor: Broadcom's BCM2836 SOC 900MHz processor, 1GB RAM and VideoCore IV 3D Graphics core Requires you to download an Operating System to your SD Card Software: Full range of ARM GNU/Linux distributions NOOBS, Raspbian, Pidora, Windows10 (Fall of 2015)

**Up Grade Power Supply For Raspberry-Pi**

35137 PS | \$9.95 ea

**28 Pin GPIO Breakout Breadboard Kit for Raspberry-Pi**

33050 MP | \$10.95 ea

**Raspberry-Pi 5M Pixel Night Vision Camera**

34985 MP | \$24.95 ea

**Raspberry-Pi 5M Pixel Camera Module**

31497 MP | \$34.95 ea

**OPTO Interrupter Sensor**

31577 MP | \$2.95 ea

**Current Sensing Module**

5Amp | 31584 MP | \$4.79 ea

20Amp | 31944 MP | \$4.79 ea

30Amp | 31586 MP | \$4.79 ea

**5V 8 Channel Relay Board**

33329 MP | \$10.95 ea

5V 8 Channel Relay Board

33329 MP | \$10.95 ea

**Ultrasonic Ranging Module**

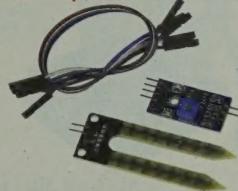
19605 UT | \$3.31 ea

**USB to RS-232 Arduino Bridge Control, CP2102****USB to RS-232 Arduino Bridge Control, CP2102**

31575 MP | \$4.95 ea

**Moisture Sensor****Moisture Sensor**

30282 MP | \$6.95 ea

**Ultrasonic Ranging Module**

19605 UT | \$3.31 ea

**I/R XMIT/Receiver Pair**

32352 MP | \$3.95 ea

Add Remote Control to Microcontrollers

**8X8 Programmable Red LED Matrix**

34563 MP | \$3.95 ea



\$6.95*

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Programmable Digital Thermostat "C"

32709 MP | \$9.95 ea

**Thermostat, Auto Heat/Cool, "C"**

32964 MP | \$13.95 ea

**High Temperature Thermostat**

34687 MP | \$12.95 ea



-30 to 999 Deg "C"

Mini Electronic Thermostat

32934 MP

\$12.95 ea

Shows Ambient & Set Point Temps.

Selectable "C" or "F"

Temperature Controller

34757 MP | \$8.95 ea

-50 to +110 "C"

**Thermostat with Timer**

34686 MP | \$12.95 ea



Selectable "C" or "F"

Motion Detector with Light Sensor

31227 SC | \$3.95 ea

**Powered Breadboard**

35125 TE | \$99.95 ea

+/- 0-15VDC
& +5V Supplies**Motion Detector Mini Module**

32061 SC | \$3.95 ea

**12VDC 0-10 Sec. Time Delay Relay Module**

33421 RL | \$2.95 ea

**PIR Relay Module**

32183 SC | \$5.95 ea

**Adj. Pulse Generator**

31070 MI | \$4.95 ea

1Hz-200KHz in 4 ranges

**Digital Temperature Controller**

32184 MP | Celsius | \$5.95 ea

32764 MP | Fahrenheit | \$6.95 ea

Compact digital thermostat with isolated relay output and 3digit 0.8" LED display.

Features: Programmable set Points, Cool or Heat control, Hysteresis, Delay and High Temp.

Alarm, Power: 12VDC Current: ~65mA Relay energized Accuracy: Measurement: 0.1deg.

Relay: SPST-NO 20A/14VDC; 20A/125VAC Sensor: NTC waterproof probe (12in. leads) Terminal Strip for Power & Relay contacts.

**2 X 16 Character LCD**

31164 MP | \$9.95 ea

Serial Interface

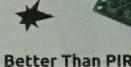
**4 X 20 Character LCD**

34346 MP | \$7.95 ea

Parallel Interface

**Doppler Radar Motion Sensor**

34685 MP | \$1.95 ea



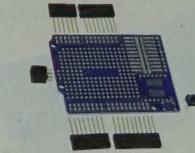
Better Than PIR

Programmable Security Key Pad

31928 SC | \$49.95 ea

**Perfboard Shield Kit**

32795 MP | \$4.95 ea

**Motor Shield Board**

30292 MP | \$10.95 ea Now \$5.95

**Sensor Shield**

31058 MP | \$7.95 ea

**2 X 16 LCD Shield**

31059 MP | \$11.95 ea

**Dual Audio Amplifier**

32705 MP | 50Watt | \$14.95 ea

**14 Watt Audio Amplifier**

31806 MI | \$5.95 ea



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Solder Stations

Visit www.mpja.com For Complete Product Line

General Purpose Solder Station

15860 TL | \$16.95 ea

Adjustable from 5 to 50 Watt (800 deg. F max) Station provides on-off switch, knob to control wattage, built-in stand, tip cleaning sponge & 1/32" point tip. 115 VAC line.

For replacement tips and handle visit our website www.mpja.com



Circuit Board Work Holder

33800 TL | \$7.95 ea



LED Lighted Soldering Iron

17516 TL | \$5.95 ea



Replacement Tip Available

Soldering Iron Set

32234 TL | \$14.95 ea



Ball Style Tip Cleaner

**34716 TL
\$5.95 ea**



Benchtop Smoke Absorber

**15166 TL
\$32.99 ea**

Carbon Filter



Hot Air Rework Station

16121 TL | \$99.95 ea

Hot air repair/rework station for SMT devices.

Features: a fast heating ceramic heater, internal air supply, stable temperature, comfort grip handle, interchangeable hot air nozzles for PLCC/SOP/ etc. devices. Adj. air flow/temperature.

Temperature range: 150 deg.-500deg. "C".

16123-TL QFP 10 X 10 (mm)

16124-TL QFP 14 X 14 (mm)

16122-TL Single 2.5mm Dia.

16128-TL Single 4mm Dia.

Visit www.mpja.com for more nozzles



Desoldering Station for Circuit Repair

19034 TL | \$119.95 ea

Economical desoldering station designed for use with lead free solders. Ergonomic pistol grip Head with trigger for rapid removal of solder. Displays both the Set Point & the Actual Tip temperature. Temp. Range: 160-480Deg. "C"

Watts: 80W running/130W cold start heat-up

Power: 115VAC/ 60Hz.

Features: Internal vacuum pump, LCD Display, electronic temperature control, PTC Ceramic Heater, Readout in "F" or "C". 3ft. cable/hose length. Includes: 0.8, 1.0 & 1.3mm tips & 3 filter/traps.

Replacement parts Available at www.mpja.com



Temperature Controlled Solder Station

15845 TL | \$48.95 ea

Temperature controlled soldering station with LED display. Heat sensor located near the tip for fast response and +10 deg. "F" control. Rated at 48Watts, 24Vac handle. Temperature range: 320 deg. "F" to 800 deg. "F". Isolated tip, fused line. 117 VAC. For replacement tips and handle visit our website www.mpja.com



Most Popular!!

SMD Hot Tweezer Adapter

15847 TL | \$12.95 ea



→ For 15845 TL station Only!

Replacement Handle

15846 TL | \$6.95 ea



→ For 15845 TL station Only!

Soldering Iron Set

32234 TL | \$14.95 ea



Soldering Iron Kit

16431 TL | \$7.95 ea



Desoldering Iron

16922 TL | \$6.95 ea



Solder Mini Station

32586 TL | \$14.95 ea



Mini Solder Sucker

20041 TL | \$3.95 ea



Antistatic Solder Sucker **15859 TL | \$6.95 ea**



Solder 40/60 Rosin Core

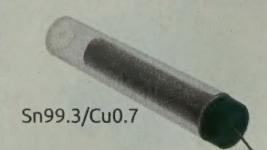
32330 TL | 1mm | \$7.95 ea

Pb60/Sn40



10gm Lead Free Solder

32056 TL | \$2.99 ea



Solder 60/40 Rosin Core

33593 TL | 1mm | \$9.95 ea

33594 TL | .6mm | \$9.95 ea



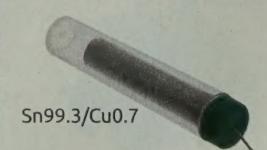
Solder 60/40 Rosin Core

33593 TL | 1mm | \$9.95 ea

33594 TL | .6mm | \$9.95 ea

10gm 63/37 Solder

32775 TL | \$1.99 ea



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5

260pcs Electrolytic Capacitor Assortment

32531 CR | \$10.95 ea



400pcs Monolithic Ceramic Capacitor Assortment

32534 CM | \$10.95 ea

50V



360pcs TO-92 Transistor Assortment

32376 QT | \$8.95 ea



150pcs Brass Standoff Kit

33401 HD | \$3.95 ea



520pcs 1/4W Resistor Assortment

32037 RS | \$4.95 ea



65pcs Variable Resistor Kit Horizontal Mount

32359 VR | \$4.95 ea



50pcs Variable Resistor Kit Vertical Mount

32358 VR | \$3.95 ea



88pcs Nylon Standoff Kit

33372 HD | \$4.95 ea

M3-0.5 threaded



2600pcs 1/4W Resistor Assortment

33418 RS | \$14.95 ea

130 Values!!



70pcs 16VDC Electrolytic Capacitor Assortment

32532 CR | \$5.95 ea



50pcs Variable Resistor Kit Vertical Mount

32809 VR | \$12.95 ea



50pcs Resettable Thermal Fuses Kit

33414 FU | \$5.95 ea



230pcs 2W Resistor Assortment

32763 RS | \$9.95 ea



190pcs Polyester Cap Kit

33416 CR | \$6.95 ea



100pcs Ceramic Capacitor Kit

33413 CR | \$3.95 ea



50pcs GMA (5X20mm) Fuse Assortment

32762 FU | \$4.95 ea



255pcs Diode and Rectifier Assortment

33412 DI | \$6.95 ea



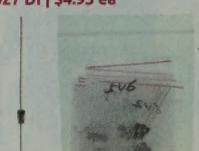
140pcs 1/2W Zener Diode Assortment

33028 DI | \$3.95 ea



70pcs 1W Zener Diode Assortment

33027 DI | \$4.95 ea



6 color SPST-NO Push-button Button Set

32728 SW | \$1.95 ea



58pcs Plastic Gear Assortment

32185 HD | \$7.95 ea



8pcs 5-24V Positive Voltage Regulators Kit

32375 RG | \$2.95 ea



80pcs 78L Series Positive Voltage Regulator Kit

33417 RG | \$4.95 ea



60pcs 79L Series Negative Voltage Regulator Kit

33415 RG | \$4.95 ea



Selectable Output Bench Supply**29902 PS | \$16.95 ea**

P/N: 9902-PS

Input: 90-250VAC 60Hz

Outputs: 3,4,5, 6, 7.5,9,12VDC @

2000mA Selectable

Specifications/Features: Enclosed, Benchtop regulated, switching supply. Switch selectable output. Front panel Power switch, Select switch & Binding posts. 6ft. 2 wire input power cord with 2 blade plug.

**0-30VDC @ 3A Linear Bench Supply****29601 PS | \$99.95 ea****0-50VDC @ 3A Linear Bench Supply****29612 PS | \$109.95 ea****0-18VDC @ 3A Linear Bench Supply****29600 PS | \$64.95 ea**

Input: 110 VAC 60Hz

Output: 0-18VDC @ 0-3A

Constant Voltage or Current

Specifications/Features: True Constant Current (Can a short) Enclosed Linear bench supply with dual LCD displays for output Volts & Amps. .01%+3mV Line/.02%+3mV Load regulation, <1mV RMS ripple. Front binding posts. Metal case & rubber feet. Internal Temp. controlled fan.

**0-30VDC @ 10A Linear Bench Supply****29604 PS | \$189.95 ea****0-30VDC @ 24A Switching Bench Supply****29317 PS | \$259.95 ea****0-120VDC @ 3A Linear Bench Supply****29313 PS | \$285.95 ea**

Input: 110 VAC 60Hz

Output: 0-120VDC @ 0-3A

Specifications/Features: Regulated Bench supply with Adjustable Current limit. LED meter displays Volts & Amps. Push button switch connects supply to load. Multi turn Voltage control for precise settings. 5mV RMS ripple. Front panel output Binding Posts & Terminal strip for remote Voltmeter Sensing at the load.

**0-50VDC @ 30A Linear Bench Supply****29970 PS | \$745.00 ea**Note: Very Heavy Power Supply
Must Be Shipped By Motor Carrier (Truck)**0-30VDC @ 16A Switching Bench Supply****29316 PS | \$169.95 ea****0-15VDC @ 1A Linear Bench Supply****29319 PS | \$32.00 ea****0-60VDC @ 10A Linear Bench Supply****29960 PS | \$279.95 ea****Dual 0-30VDC @ 3A Bench Supply****29623 PS | \$169.95 ea**

Input: 110 VAC 60Hz

Outputs: #1: 0-30VDC @ 0-3A

#2: 0-30VDC @ 0-3A #3: 5VDC @ 3A Fixed Dual Constant Voltage or Current supply with 4 LED meters that displays Volts & Amps. Selectable Independent, Series or Parallel operation of Adj. supplies (0-60V/3A or 0-30V/6A). RMS ripple: 20mVp/p (CV) 50mAmp/C (CC) Front panel output Binding Posts. Metal case & rubber feet. Internal Temp. controlled fan

**0-30VDC @ 3A Switching Bench Supply****29616 PS | \$53.95 ea****0-30VDC @ 5A Switching Bench Supply****29617 PS | \$69.95 ea****0-30VDC @ 10A Switching Bench Supply****29631 PS | \$109.95 ea**

Input: 110 VAC 60Hz

Output: 0-30VDC, 0-10A

Constant Voltage/Current

Specifications/Features: Adjustable Voltage/adjustable Current limit. Enclosed regulated switching bench supply with backlit LCD display for output Volts & Amps. 0.2% +10mV Line/0.2%+5mV Load regulation, <100mV RMS max ripple. Binding Posts Out

**0-120VDC @ 1A Linear Bench Supply****29312 PS | \$139.95 ea****0-30VDC @ 19A Linear Bench Supply****29950 PS | \$289.95 ea****Handheld Adjustable Supply****32577 PS | \$149.95 ea**

P/N: PS2002H

Input: 90-265VAC 50/60Hz

Output: 0-30VDC @ 50W

Limits: 3.75A @ 12V 1.6A @ 30V

Handheld switching supply with backlit LCD display and Adjustable Current Limit. Output On/Off button, USB Select button, Store & Recall function button, Adjust Up/Down Buttons. Output Adjustable in 10mV/10mA increments.



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GENERAL SPECIFICATIONS

RoHS Compliant

360° VIEW
@MPJA.COM

High reliability line of power supplies designed to operate over the wide range of AC power found world wide.

- Overvoltage, Overcurrent, Short Circuit Protected
- No minimum load
- UL/CANADA/USA/CE listed.
- 100% Full Load Burn-in Tested
- Full rated to 50°C

15W SUPPLIES



STOCK #	OUTPUT	PART #
18438-PS	5V/3A	HF15W-SPL-5
18439-PS	12V/1.3A	HF15W-SPL-12
18440-PS	24V/0.6A	HF15W-SPL-24
18441-PS	48V/0.3A	HF15W-SPL-48

Qty: 1-9 \$15.99 ea | Qty: 10-99 \$14.95

Input: 85-264 VAC 47-63Hz Universal
L: 4.0" W: 1.82" H: 1.0" Wt: .2lb

25W SUPPLIES



STOCK #	OUTPUT	PART #
17320-PS	3.3V/6A	HF25W-SL-3.3
17321-PS	5V/5A	HF25W-SL-5
17322-PS	12V/2.1A	HF25W-SL-24
17323-PS	15V/1.7A	HF25W-SL-15
17325-PS	48V/0.57A	HF25W-SL-48

Qty: 1-9 \$14.90 ea | Qty: 10-99 \$12.60

Input: 85-264 VAC 47-63Hz Universal
L: 3.88" W: 3.23" H: 1.38" Wt: .6lb

40W SUPPLIES



STOCK #	OUTPUT	PART #
16000-PS	5V/8A	HF-40W-SL5
16001-PS	12V/3.5A	HF-40W-SL12
16002-PS	15V/2.8A	HF-40W-SL15
16003-PS	24V/1.8A	HF-40W-SL24
16004-PS	48V/0.8A	HF-40W-SL48

Qty: 1-9 \$16.00 ea | Qty: 10-99 \$15.49

Input: 85-264 VAC 47-63Hz Universal
L: 5.08" W: 3.86" H: 1.57" Wt: 1.1lb

60W SUPPLIES



STOCK #	OUTPUT	PART #
16005-PS	5V/12A	HF-60W-SL5
16006-PS	12V/5A	HF-60W-SL12
16007-PS	15V/4A	HF-60W-SL15
16008-PS	24V/2.5A	HF-60W-SL24
16009-PS	48V/1.3A	HF-60W-SL48

Qty: 1-9 \$19.95 ea | Qty: 10-99 \$18.90

Input: 85-264 VAC 47-63Hz Universal
L: 6.3" W: 3.86" H: 1.54" Wt: 1.2lb

MTBF: 100,000 Hours

Operating Temp. & Humidity: -10° C to +50° C

20%-93% Non Condensing

Storage Temp. & Humidity: -20° C to +85° C

20%-95% Non Condensing

Cooling: Convection

Approvals/Standards: cULus Ref. No.: E22014

Safety: GB4943, UL60950, EN60950

EMC: GB9254, EN55022 class B, EN55024

-3-2/3 EN61000-4-2/3/4/5/6/8/11

Line Regulation (Full Load): < +/- 0.5%

Load Regulation: .05% (0-100%)

Inrush Current: 20A/115V, 40A/230V

Input Leakage Current: <.07mA @ 230VAC

Output Adjustment Range: +/- 10%

Overload Protection: 40/60W:110-150%-100/150W: 110-130%

Over Voltage Protection: 115-150%

Rise Time: 50mS Full Load (Typical)

Hold Up Time: 20mS Full Load (typical)

Withstand Voltage (1 Min.):

Input to Output: 3.0KV AC

Input to Frame/Ground: 1.5KV AC

Output to Frame/Ground: 0.5KV AC

100W SUPPLIES



STOCK #	OUTPUT	PART #
16010-PS	5V/20A	HF-100W-SF3
16011-PS	5V/20A	HF-100W-SF5
16012-PS	7.5V/13.5A	HF-100W-SF7.5
16014-PS	15V/6.7A	HF-100W-SF15
16016-PS	48V/2.2A	HF-100W-SF48

Qty: 1-9 \$26.50 ea | Qty: 10-99 \$25.60

STOCK #	OUTPUT	PART #
16013-PS	12V/8.5A	HF-100W-SF12
16015-PS	24V/4.5A	HF-100W-SF24

Qty: 1-9 \$21.69 ea | Qty: 10-99 \$18.95

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 3.86" H: 1.54" Wt: 1.5lb

150W SUPPLIES



STOCK #	OUTPUT	PART #
16017-PS	5V/30A	HF-150W-SF5
16018-PS	7.5V/20A	HF-150W-SF7.5
16019-PS	9V/17A	HF-150W-SF9
16033-PS	28V/5.5A	HF-150W-SF28
16034-PS	36V/4.2A	HF-150W-SF36

Qty: 1-9 \$28.60 ea | Qty: 10-99 \$27.95

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 4.33" H: 1.97" Wt: 1.6lb

240W SUPPLIES



STOCK #	OUTPUT	PART #
16020-PS	12V/12.5A	HF-150W-SF12
16032-PS	24V/6.5A	HF-150W-SF24

Qty: 1-9 \$26.85 ea | Qty: 10-99 \$23.69

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 4.33" H: 1.97" Wt: 1.6lb

STOCK #	OUTPUT	PART #
18434-PS	5V/40A	HF-240W-SF5
18437-PS	48V/5A	HF-240W-SF48

Qty: 1-9 \$45.00 ea | Qty: 10-99 \$38.90

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 4.33" H: 1.97" Wt: 1.6lb



\$6.95* FLAT RATE SHIPPING

*Restrictions Apply

Toll Free Orders: 1-800-652-6733

Heat Sink Compound, #860, Squeeze Tube MG Chemical

30389 MG
140gm | \$15.26 ea



Will Not Dryout
Harden or
Separate

Thermal Grease II, #8616, Syringe MG Chemical

30391 MG
8.2gm | \$5.95 ea



Will Not Dryout
Harden or
Separate

High Thermal
conductivity

Thermal Conductive Adhesive, 8329TCS, Slow Cure MG Chemical

31968 MG
200ml | \$89.95 ea



Thermal Conductive Adhesive, #8329TCS, Slow Cure MG Chemical

31967 MG
6ml | \$9.85 ea



Thermal Conductive Adhesive, #8329TCM, Medium Cure MG Chemical

31969 MG
6ml | \$9.95 ea



Extreme Electrical Conductivity Adhesive, #8330S Silver Filled MG Chemical

30379 MG
21gm | \$65.00 ea



Flux Remover #4140 400gm MG Chemical

30364 MG
400gm | \$13.34 ea

Removes all Rosin,
Non-robin, No-clean,
Ionic & Non-ionic Flux &
Residue



Silicone Conformal Coating, #422 MG Chemical

30366 MG
340gm | \$18.95 ea

Protects Against
Moisture, Dirt,
Arcing & Shorts



Isopropyl Alcohol 99.9%, #824, Quart Bottle MG Chemical

30373 MG
1qt | \$12.95 ea



Electrosolve Contact Cleaner, #409B MG Chemical

30361 MG
140gm | \$7.75

30362 MG
340gm | \$13.34



Heavy Duty Flux Remover, #413B MG Chemical

30363 MG
425gm | \$17.95 ea



Isopropyl Alcohol Wipe, #824-W MG Chemical

30374 MG
pkg. 25 | \$11.45

Cleaner with
99.9% pure
Isopropyl
Alcohol



Super Cold 134 #403A MG Chemical

30355 MG
185gm | \$10.19

30356 MG
400gm | \$13.87

100% Ozone Safe
HFC134A gas
(R-134)



Contact Cleaner with Silicone, #404B MG Chemical

30357 MG
140gm | \$7.85

30358 MG
340gm | \$12.39



Alcohol Wipes, General purpose, #8241-T, MG Chemical

30375 MG | \$8.95 ea

General Purpose
Cleaner with 70% pure
Isopropyl Alcohol



Liquid Rosin Flux, #835 Bottle MG Chemical

30382 MG
100ml | \$8.95 ea



Super Wash Cleaner/ Degreaser, #406B MG Chemical

30359 MG
425gm | \$15.26 ea

Ozone Safe-No Residue
Non-conductive
Safe on plastics



Nu-Trol Control Cleaner, #401B MG Chemical

30350 MG
140gm | \$7.65 ea



Rubber Renu, #408A Bottle MG Chemical

30360 MG
125ml | \$7.95 ea



Acrylic Conformal Coating, #419C MG Chemical

30365 MG
340gm | \$17.95 ea



Super Duster 134, #402A MG Chemical

30351 MG
285gm | \$9.51

30352 MG
450gm | \$14.79

100% Ozone Safe
HFC134A gas
(R-134)



Super Duster 152, #402B MG Chemical

30353 MG
285gm | \$7.45

30354 MG
400gm | \$9.95

Ozone Safe 99%
1,1-Difluoroethane



Solder Braid MG Chemical

30369 MG
#424 | \$2.85/5ft

30370 MG
425 | \$2.95/5ft

30371 MG
#426 | \$3.15/5ft

30372 MG
#442 | \$10.95/25ft



Adhesive, Conductive #8331, Silver Filled MG Chemical
30380 MG
14gm | \$39.95 ea



Conductive Grease, #846 Carbon Filled, MG Chemical

30386 MG
80gm | \$15.95 ea



White Lithium Grease, #8461 Squeeze Tube, MG Chemical

30387 MG
85ml | \$7.15 ea



Silicone Grease, #8462 Translucent Squeeze Tube MG Chemical

30388 MG
85ml | \$12.39 ea



Red GLPT Varnish, #4228 Bottle MG Chemical

30367 MG
225ml | \$24.97 ea



Connector Coat Black, #4229 Bottle MG Chemical
30368 MG
55ml | \$14.95 ea



3D PRINTER COLOR FILIMENT

Material PLA;
Polylactic Acid

Dia: 1.75mm

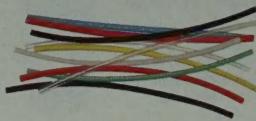


1kg Spools

33865 MC Trans	\$24.95 ea
33866 MC White	
33867 MC Black	
33868 MC Red	
33869 MC Yellow	
33867 MC Green	
33868 MC Blue	
33869 MC Orange	
33904 MC Wood	\$19.95

1/8" Heat Shrink Assortment, 6in. Long, Color

16831 HS | \$2.25 ea



Heat Shrink Assortment, 160Pcs. 4" Black

32258 HS
\$11.95 ea



33865 MC | Trans

33866 MC | White

33867 MC | Black

33868 MC | Red

33869 MC | Yellow

33867 MC | Green

33868 MC | Blue

33869 MC | Orange

33904 MC | Wood

\$19.95

Potting Compound, #832C Clear MG Chemical

30377 MG
375ml | \$29.61 ea



\$2.25 ea

3/16" Heat Shrink Assortment, 6in. Long, Color

16832 HS | \$2.50 ea



Heat Shrink Assortment, 4" Long, Color

16843 HS
\$11.95 ea



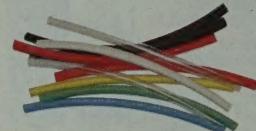
30377 MG

375ml | \$29.61 ea

\$2.50 ea

1/4" Color Heat Shrink Assortment, 6in. Long

16833 HS | \$2.75 ea



Heat Shrink Assortment, 2-1/2" Long, Black

16835 HS
\$10.95 ea



\$2.75 ea

Potting Compound, #832B Black MG Chemical

30376 MG

375ml | \$30.57 ea



\$3.00 ea

3/8" Color Heat Shrink Assortment, 6in. Long

16834 HS | \$2.95 ea



Natural Nylon Wire Ties

Pack of 100

20199 TY | 4in | \$1.10

20200 TY | 5-1/2in | \$1.70

24529 TY | 7-1/2in | \$2.80

24530 TY | 11in | \$5.00

Potting Compound, #833FRB Flame Retardant - MG Chemical

30378 MG

375ml | \$43.95 ea



\$4.40 ea

Black Heat Shrink Assortment 6in. Long

16830 HS | \$3.95 ea



Black Nylon Wire Ties

Pack of 100

11630 TY | 4in | \$1.30

11508 TY | 7-1/2in | \$2.50

11633 TY | 11in | \$6.90

\$3.95 ea

Adhesive, Conductive, #8331S, Silver Filled MG Chemical

30381 MG

15GM | \$65.00 ea



\$65.00 ea

\$65.00 ea

Adhesive/Screw Mounts For Wire Ties

33260 TY

\$3.95 pk

Pack of 100



500pc. 4" Cable Ties in 5 Colors

34524 TY | \$4.95 ea

\$4.95 ea



Power Supplies

Visit www.mpja.com for Complete Product Line

9VDC @ 16.7Amp Meanwell Supply
18367 PS | \$49.95 Now \$14.95 ea



+5V, +3.3V, +24V & -12V Meanwell Supply
18366 PS | \$29.95 ea



320W Hengfu Supplies
31340 PS | 5V/60A | \$59.95 ea
31342 PS | 12V/25A | \$59.95 ea
31344 PS | 24V/13A | \$59.95 ea



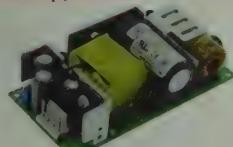
5V & 12V DC 5A Power Supply
34293 PS | \$8.95 ea



15V @ 3Amp Meanwell Supply
31506 PS | \$12.95 Now \$9.95 ea



24V @ 2.7Amp SL Power Supply
33786 PS | \$9.95 ea



12VDC 750mA USED Unreg. Plug Supply Leader 33475 PD | \$2.95 ea



12VDC 2.5A Plug Power Supply Netgear
33380 PS | \$6.95 ea



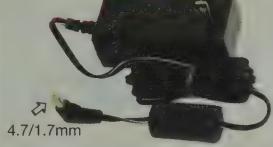
5VDC 4A Plug Power Supply Openpeak
18520 PS | \$6.45 ea



SVDC 2A Plug USB Power Supply
32736 PS | \$2.95 ea



9VDC 1A Power Supply Kenwood
19463 PS | \$2.95 ea



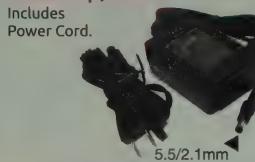
15VDC 900mA Power Supply iConnect
32486 PS | \$2.50 ea



9VDC 1A Adapter Power Supply Ault
32214 PS | \$4.95 ea



12VDC 2A Adapter Power Supply Sino
32483 PS | \$7.95 ea



12VDC 2.5A Used Adapter Power Supply Leader 30201 PS | \$5.95 ea



Adjustable Boost DC/DC Converter
31397 PS | \$4.95 ea



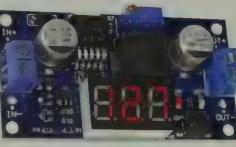
Adjustable Boost DC/DC Converter with Meter 33525 PS | \$7.95 ea



Adjustable Buck DC/DC Converter
30148 PS | \$3.95 ea



Adjustable Buck DC/DC Converter with Meter 30149 PS | \$9.95 ea



Constant Voltage & Current DC/DC Converter
31562 PS | \$4.95 ea



24VDC 5A Adapter Power Supply Megmeet
32885 PS | \$14.95 ea



48VDC 2.08A Adapter Supply XP Power
32492 PS | \$18.95 ea



Adjustable DC/DC Regulator
31800 PS | \$2.95 ea



Toll Free Orders: 1-800-652-6733



\$6.95* FLAT RATE SHIPPING



*Restrictions Apply

11

Chassis Mount Transformers



Selecting Transformers

Volts & Current listed are nominal RMS. Open circuit and loaded values are different. Type of rectifier/filter circuit will effect secondary & output current and they can be very different.

Full wave center tap choke input filter:

Transformer secondary amps are .7 X required output amps.

Full wave center tap cap input filter:

Transformer secondary amps are 1.2 X required output amps.

For Full wave bridge choke input filter:

Transformer secondary amps are = to required output amps

For Full wave bridge cap input Filter:

Transformer secondary amps are 1.8 X required output amps.

STOCK #	STYLE	INPUT	OUTPUT VOLTS	AMPS	LEADS	DIMN. (L W H)	WT.	1EA
27838-TR	A	110/220VAC	12VAC (6V-0V-6V)	1A	6"	2-3/4" x 1-1/2" x 1-5/8"	.6	\$6.75
27839-TR	A	110/220VAC	12VAC (6V-0V-6V)	2A	6"	3-1/4" x 2" x 2"	1.3	\$8.95
27840-TR	A	110/220VAC	12VAC (6V-0V-6V)	4A	6"	4" x 2" x 2-1/4"	1.7	\$15.95
27841-TR	A	110/220VAC	18VAC (9V-0V-9V)	1A	6"	3" x 2" x 1-3/4"	.8	\$6.95
27842-TR	A	110/220VAC	18VAC (9V-0V-9V)	1.5A	6"	3-1/4" x 2" x 1-7/8"	1.1	\$8.95
27843-TR	A	110/220VAC	18VAC (9V-0V-9V)	2A	6"	3-1/4" x 2" x 1-7/8"	1.1	\$8.95
27844-TR	A	110/220VAC	24VAC (12V-0V-12V)	2A	6"	3-1/2" x 2-1/4" x 2"	1.4	\$11.95
27845-TR	A	110/220VAC	24VAC (12V-0V-12V)	4A	6"	3-7/8" x 2-1/2" x 2-1/4"	2.3	\$18.95
27846-TR	B	110/220VAC	24VAC (12V-0V-12V)	10A	6"	3-3/4" x 3-5/8" x 3-3/8"	5.5	\$39.95

The Transformers above have a Center tapped secondary allowing use of Half wave, Full wave center tap or Full wave bridge rectifier circuits.

500VA 0-130VAC Variable Power Transformer

15162 TR
\$59.95 ea



2KVA 0-130VAC Variable Power Transformer

15163 TR
\$114.95 ea



Control Transformer 120/220/240/480V 50VA

31833 TR | \$39.95 ea



Control Transformer 26.5V 40VA

32196 TR | \$7.95 ea



LED Driver 3W Output 85-265VAC Input

31536 PS | \$1.95 ea



LED Driver 10W Output 90-264VAC Input

32817 PS | \$3.95 ea



LED Driver 20W Output 110-260VAC Input

31538 PS | \$5.95 ea



LED Driver 30W Output 110-260VAC Input

31539 PS | \$8.95 ea



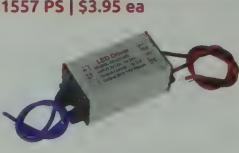
LED Driver 3W Output 12VDC Input

31556 PS | \$1.95 ea



LED Driver 10W Output 12-24VAC/DC Input

31557 PS | \$3.95 ea



LED Driver 20W Output 12-24VDC Input

31558 PS | \$8.95 ea



LED Driver 30W Output 12-24VDC Input

31559 PS | \$8.95 ea



Sealed Lead Acid Rechargeable Batteries

17280 BT | 6V 4Amp | \$7.95 ea
14817 BT | 6V 8Amp | \$19.95 ea
14819 BT | 12V 7Amp | \$22.95 ea



4 Stage Thermoelectric Cooling Module 12VDC

33911 PM | \$39.95 ea



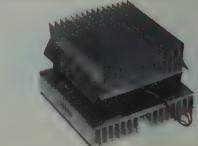
Thermoelectric Cooling Module 127 Couple 12VDC

30207 PM | \$4.98 ea



Peltier Cooling Assembly, 12VDC

15312 PM | \$29.95 ea



1 2 3 4 5 6 95*

FLAT RATE SHIPPING



*Restrictions Apply

Toll Free Orders: 1-800-652-6733

LEDs/Indicators

12Vdc 5 Meter Roll LEDs

19434 OP | Cool White | \$12.95 ea
33111 OP | Med. White | \$12.95 ea
31362 OP | Red | \$12.95 ea
19441 OP | Blue | \$12.95 ea

Water Resistant
IP65 Rated
PVC Encapsulated
Strip with wire
pigtailed for con-
nection.



5 Meter Roll RGB LED, Controller and Supply

31541 OP | \$19.95 ea
PVC encapsulated roll, controller not
waterproof
Includes IR
remote.



12VDC 5 Meter Cool White LED Roll

31192 OP | \$9.95 ea

Indoor
Only!



12VDC 72 Lumen Cool White 20 Module String

19438 OP | \$14.95 ea



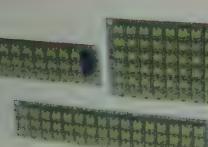
12VDC 36 Lumen Cool White 20 Module String

31366 OP | \$12.95 ea



12VDC Cool White Piranah LED Boards

32035 OP | 3 x 8 LEDs | \$4.95 ea
33081 OP | 3 x 16 LEDs | \$9.95 ea
33070 OP | 6 x 8 LEDs | \$9.95 ea



Bulk Pack LEDs 100 per pack

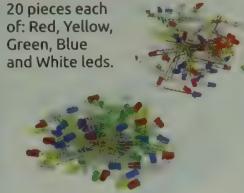
15101 OP | 3mm Red | \$1.95 ea
15102 OP | 3mm Green | \$1.95 ea
15103 OP | 3mm Yellow | \$1.95 ea
15104 OP | 3mm Blue | \$2.95 ea
15108 OP | 5mm Red | \$1.95 ea
15307 OP | 5mm White | \$2.95 ea
15308 OP | 5mm Green | \$1.95 ea
15309 OP | 5mm Yellow | \$1.95 ea
31363 OP | 5mm Blue | \$3.95 ea



Assortment Pack LEDs 100 per pack

32674 OP | 3mm | \$2.95 ea
32066 OP | 5mm | \$2.95 ea

20 pieces each
of: Red, Yellow,
Green, Blue
and White leds.



10 Watt LEDs

31515 OP | Red | \$3.95 ea
31516 OP | Green | \$3.95 ea
31517 OP | Blue | \$2.95 ea
31183 OP | Warm White | \$2.95 ea
31518 OP | RGB | \$3.95 ea

Requires heatsink
and current
control power
supply!



High Lumen Cool White LEDs

31325 OP | 10 Watt | \$2.95 ea
31326 OP | 20 Watt | \$7.95 ea
31327 OP | 30 Watt | \$9.95 ea

Requires
heatsink
and current
control power
supply!



10 Watt Infrared LEDs

32621 OP | 730nm | \$22.95 ea
32622 OP | 850nm | \$10.95 ea
32623 OP | 940nm | \$9.95 ea

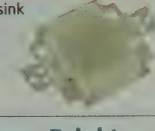
Requires
heatsink
and current
control power
supply!



10 Watt Ultraviolet LEDs

32614 OP | 365-367nm | \$49.95 ea
32616 OP | 385-390nm | \$14.95 ea
32617 OP | 395-400nm | \$14.95 ea
32618 OP | 410-415nm | \$10.95 ea
32619 OP | 420-430nm | \$9.95 ea

Requires heatsink
and current
control power
supply!



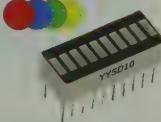
10mm Super Bright Cool White LED 15000mcd

15415 OP | \$0.15 ea
Current limiting resistor required



10 Segment LED Bargraph

32253 OP | Red | \$1.75ea
32325 OP | Blue | \$1.75ea
32326 OP | Green | \$1.75ea
32327 OP | Yellow | \$1.75ea



12VDC 5mm LED Lamps

30124 LA | Red | \$0.75ea
30125 LA | Green | \$0.75ea
30126 LA | Yellow | \$0.75ea
30127 LA | Blue | \$0.75ea
30128 LA | White | \$0.75ea



50 Micro LEDs in a 5 Meter String

31985 OP | Cool White | \$5.95ea
31984 OP | RGB Flashing | \$9.95ea



3VDC Mini LASER Head 635nm <5mw

19566 LZ | \$2.25 ea



5VDC LASER Diode Red Crosshair Pattern <5mw

33029 LZ | \$2.95 ea



12VDC Bi-Pin G-4 LED Modules

33410 OP | Warm White | \$1.95 ea
33411 OP | Cool White | \$1.95 ea



12V AC/DC 3Watt Cool White MR-16 LED

31975 OP | \$3.95 ea



12V AC/DC LED Indicators

32750 LA | Red | \$2.49 ea
32751 LA | Green | \$2.49 ea
32752 LA | Blue | \$2.49 ea



12V AC/DC 22mm LED Indicators

31087 LE | Red | \$2.95 ea
31088 LE | Green | \$2.95 ea
31089 LE | Yellow | \$2.95 ea



Solid State Relay

31931 RL 10 Amp	\$5.95 ea
31932 RL 25 Amp	\$8.95 ea
31933 RL 40 Amp	\$10.95 ea

DC-AC
3-32VDC control voltage, 24-480VAC output voltage SPST-NO AC only

**Solid State Relay**

33980 RL 10 Amp	\$6.95 ea
33981 RL 25 Amp	\$9.95 ea
33982 RL 40 Amp	\$11.95 ea

DC-DC
3-32VDC control voltage, 5-60VDC output voltage SPST-NO DC only

**Solid State Relay**

33984 RL 10 Amp	\$6.95 ea
33985 RL 25 Amp	\$8.95 ea
33986 RL 40 Amp	\$11.95 ea

AC-AC
80-280VAC control voltage, 24-480VAC output voltage SPST-NO AC only

**PC Mount Terminal Strip**

18318 TS 2 Position	\$0.39 ea
18319 TS 3 Position	\$0.49 ea

5mm spacing end stackable

**5.5mm Power Jacks**

32104 PL 5.5/2.1mm	\$1.49 ea
32105 PL 5.5/2.5mm	\$1.49 ea

Metal Chassis mount connector with solder tabs

**5.5mm Power Adaptors**

19452 PL 2.1mm Plug	\$0.89 ea
19453 PL 2.5mm Plug	\$0.89 ea
19454 PL 2.1mm Jack	\$0.89 ea
19455 PL 2.5mm Jack	\$0.89 ea
Adapts wire leads to coaxial/barrel power connectors Screw terminals to 5.5mm Q/D plugs and Jacks.	

**12 Position Euro Block**

32940 TS 10Amp	\$1.75 ea
32941 TS 20Amp	\$1.85 ea
32675 TS 30Amp	\$1.95 ea

**Threaded locking connector pair**

32420 PL 2 Pin	\$1.95 ea
32421 PL 3 Pin	\$1.95 ea
32423 PL 5 Pin	\$1.95 ea
32426 PL 8 Pin	\$1.95 ea

**UL Hook-Up Wire**

Handy spool of 100ft. General Purpose 300 Volt, 105Deg. "C", UL 1007/1569 Copper conductor Hook-up wire.

SOLID 22AWG

STOCK #	DESC.	WT.: .4
32270-WI	Solid Red	\$8.95
32271-WI	Solid Black	\$8.95
32272-WI	Solid Yellow	\$8.95
32273-WI	Solid Blue	\$8.95
32274-WI	Solid White	\$8.95
32275-WI	Solid Green	\$8.95

STRANDED 22AWG

STOCK #	DESC.	WT.: .4
32280-WI	Stranded Red	\$8.95
32281-WI	Stranded Black	\$8.95
32282-WI	Stranded Yellow	\$8.95
32283-WI	Stranded Blue	\$8.95
32284-WI	Stranded White	\$8.95
32285-WI	Stranded Green	\$8.95

STRANDED 18AWG

STOCK #	DESC.	WT.: .8
32290-WI	Stranded Red	\$12.95
32291-WI	Stranded Black	\$12.95
32292-WI	Stranded Yellow	\$12.95
32293-WI	Stranded Blue	\$12.95
32294-WI	Stranded White	\$12.95
32295-WI	Stranded Green	\$12.95

Solid 22Awg Hook Up Wire Set

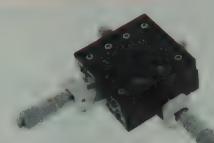
32267 WI | \$15.95 ea
6 colors 25' each spool

**Adjustable 3 Axis Stage**

33383 MI | \$169.95 ea

**2 Axis X/Y Stage**

33402 MI | \$139.95 ea

**Stranded 22Awg Hook Up Wire Set**

32269 WI | \$15.95 ea
6 colors 25' each spool

**10" x 7" x 2" Aluminum Heat Sink**

33305 HK | \$23.95 ea

**15-3/4" X 7-13/16" X 2" Aluminum Heat Sink**

33306 HK | \$59.95 ea

**Wire Wrap Wire 30AWG**

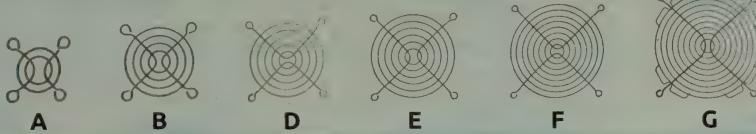
33125 WI | Red | \$7.95 ea
33126 WI | Black | \$7.95 ea
33129 WI | Green | \$7.95 ea

Approximately 650ft.



THERMOCOOL AC FANS
UL/TUV/CE RoHS Compliant


STOCK#	FIG.	P/N	DIMN.	VOLTS/AMP	CFM	NOISE	BEARING	CONNECT	WT	1EA	12+EA
17771-FN	A	G8025HAS	3-1/8" SQ X 1"	125AC/.13	23	30	SLV.	WIRE	.6	\$9.95	\$8.95
17772-FN	B	G8038HAS	3-1/8" SQ X 1-1/2"	125AC/.14	28	33	SLV.	WIRE	.6	\$14.95	\$12.95
17773-FN	C	G9225HAS	3-5/8" SQ X 1"	125AC/.14	34	40	SLV.	TERM	.5	\$9.95	\$8.95
17774-FN	D	G12025HAS	4-11/16" SQ X 1"	125AC/.20	66	42	SLV.	TERM	.75	\$9.95	\$8.95
17775-FN	E	G12038HAS	4-11/16" SQ X 1-1/2"	125AC/.28	95	48	SLV.	TERM	1.1	\$12.95	\$10.95
17776-FN	E	G12038MAB	4-11/16" SQ X 1-1/2"	125AC/.22	85	44	BALL	TERM	1	\$15.95	\$12.95
17777-FN	E	G12038MAS	4-11/16" SQ X 1-1/2"	125AC/.22	85	44	SLV.	TERM	1.1	\$11.95	\$9.95
17778-FN	F	G13538HAS	5-5/16" SQ X 1-1/2"	125AC/.34	122	53	SLV.	WIRE	1.2	\$14.95	\$12.95
17779-FN	G	G15050HAS	6" SQ X 2"	125AC/.40	198	58	SLV.	WIRE	1.9	\$22.95	\$19.95
17780-FN	H	G17050HASB	6-3/4" RND X 2"	125AC/.40	198	59	BALL	TERM	1.8	\$22.95	\$19.95
17781-FN	I	G17050HAST	6-3/4" X 6 X 2"	125AC/.40	198	59	BALL	TERM	1.9	\$22.95	\$19.95

FAN GUARDS
**PICTURES ARE
REPRESENTATIVE OF
THE STYLE AND MAY
NOT BE EXACT.**


STOCK#	FIG.	FAN SIZE	STYLE	MOUNTING	MAT.	FINISH	WT.	1EA	10+EA
18383-FN	A	1-9/16"/40MM	OFFSET	4 CORNERS	STEEL	CHROME	.01	\$0.99	\$0.89
18384-FN	B	2-3/8"/60MM	OFFSET	4 CORNERS	STEEL	CHROME	.03	\$0.99	\$0.89
18386-FN	D	3-1/8"/80MM	OFFSET	4 CORNERS	STEEL	CHROME	.04	\$1.25	\$0.99
18387-FN	E	3-5/8"/90MM	OFFSET	4 CORNERS	STEEL	CHROME	.05	\$1.25	\$0.99
18388-FN	F	4-11/16"/120MM	OFFSET	4 CORNERS	STEEL	CHROME	.08	\$1.39	\$1.25
17815-FN	G	5"/127MM	OFFSET	4 CORNERS	STEEL	CHROME	.13	\$0.49	\$0.49

120VAC 6-3/4" Fan
31876 FN | \$22.95 ea
 172mm X 50mm X 150mm

210cfm

**120VAC 4-11/16" X 1-1/2" Fan**
33012 FN | \$8.95 ea
 120mm X 38mm

105cfm

**120VAC 3-1/2" X 1-1/2" Fan**
33010 FN | \$7.95 ea
 80mm X 38mm

30cfm

**230VAC 3-1/2" X 1-1/2" Fan**
33489 FN | \$5.95 ea
 80mm X 38mm

28cfm

**Plastic Guard & Filter**
33403 FN | 80mm | \$1.79 ea
33404 FN | 120mm | \$1.95 ea
**Louvered Fan Guard with Dust Filter for 4-11/16" (120mm) Fan**
33406 FN | \$3.95 ea
**Cabinet Vent with Dust Filter and Bracket**
33405 FN | \$9.95 ea
**4 plugs 27" Fan Cord**
30347 FN | \$1.95 ea
**5VDC 2-3/8" X 1" Fan**
33704 FN | \$2.95 ea
 60mm X 25mm

19cfm

**5VDC 1-9/16" X 3/8" Fan/Blower**
34467 FN | \$3.95 ea

~4.6cfm


 Detachable
flow
director
5VDC 1-9/16" X 3/8" Fan
31854 FN | \$2.95 ea
 40mm X 10mm

~6cfm

**5VDC 1-9/16" X 1/2" Fan**
31414 FN | \$1.95 ea
 40mm X 13mm


8cfm

Toll Free Orders: 1-800-652-6733



\$6.95*

FLAT RATE SHIPPING



*Restrictions Apply

12VDC 2" X 3/8"
T&T Fan 50mm X 10mm
12773 FN | \$1.65 ea

9 CFM



12VDC 2-3/8" X 1"
Boxer Fan 60mm X 25mm
33482 FN | \$2.95 ea

13.4CFM



12VDC, 3-1/8" X 1"
NMB Fan 80mm X 25mm
34550 FN | \$2.95 ea

25CFM



12VDC 3-5/8" X 1"
NMB Fan 90mm X 25mm
33484 FN | \$2.95 ea

31CFM



12VDC Fan & Heatsink
17045 HK | \$4.95 ea
60mm X 80mm X 64mm

~14CFM
Fan



24VDC 2-3/8" X 13/16"
Fan Globe 60mm X 20mm
33483 FN | \$1.95 ea

~13 CFM



12VDC 1-1/2" X 1-1/8"
Delta Fan 38mm X 28mm
33157 FN | \$4.95 ea

~17CFM



12VDC 2-3/8" X 3/4"
Delta Fan 60mm X 20mm
32786 FN | \$2.95 ea

~13 CFM



12VDC, 2-3/8" X 1"
Jamicon Fan 60mm X 25mm
17526 FN | \$2.95 ea

~17CFM



12VDC 2-3/4" X 3/4"
AVC Fan 70mm X 20mm
32788 FN | \$2.95 ea

~54 CFM



12VDC, 3-1/8" X 1"
NMB Fan 80mm X 25mm
34412 FN | \$4.95 ea

42CFM Max

Speed
Varies with
Temp.

12VDC 3-1/8" X 1"
NMB Fan 80mm X 25mm
32685 FN | \$5.95 ea

~25 CFM



12VDC 3-1/8" X 1"
NMB Fan 80mm X 25mm
33480 FN | \$2.49 ea

35CFM



12VDC 3-5/8" X 1"
NMB Fan 90mm X 25mm
34001 FN | \$2.95 ea

35CFM



**12VDC 3-5/8" X
11/16" Fan** 92mm X 25mm
19387 FN | \$5.95 ea



**12VDC 4-11/16" X
1-1/2" Fan** 120mm X 38mm
33923 FN | \$8.95 ea

85CFM



12VDC 4-11/16" X 1"
Sunon Fan 120mm X 25mm
32610 FN | \$4.95 ea

90CFM



12VDC 4-11/16" X 1"
Sunon Fan 120mm X 25mm
31203 FN | \$4.95 ea

108CFM



12VDC Fan & Heatsink
33477 HK | \$19.95 ea
50mm X 50mm X 30mm



12VDC Fan & Heatsink
18710 HK | \$4.95 ea
Fan 80mm X 80mm X 25mm



24VDC 1-9/16" X 3/4"
Sunon Fan 40mm X 20mm
33785 FN | \$1.99 ea

~7.7 CFM



24VDC 4-11/16" X 1"
Fan 125mm X 25mm
32921 FN | \$5.95 ea

~80 CFM



24VDC 4-11/16" X 1-1/2"
NMB Fan 120mm X 38mm
34410 FN | \$8.95 ea

83CFM



24VDC 6-3/4" X 2"
Fan 172mm x 51mm
19297 FN | \$19.95 ea

235CFM



Solderless Breadboards**A****B****C****E****F****65 Piece Breadboard Jumper Pin Set**

30116 PL | \$3.95 ea

Male to Male



White ABS plastic body (except G clear), B, C & E come with metal mounting base. Nickel plated phosphor bronze contacts. Contact resistance less than 1 milliohm @ 1kHz. Tested for over 10,000 cycles. Snap lock molded dovetail for combining multiple boards. Suitable for 19-29 AWG wire & all DIP size components. Please visit our web site for more detailed information.

STOCK #	FIG.	DESC.	SIZE L X W	WT.	1EA	10+EA
24443-TE	A	830 point	6-1/2" X 2-1/8"	.3	\$4.95	\$3.95
24444-TE	B	830 point 3 Binding Post and Jumper Kit	7-7/8" X 4-1/8"	.8	\$9.95	\$8.95
24445-TE	C	1660 point 3 Binding Post and Jumper Kit	8-3/8" X 5-1/8"	.9	\$12.95	\$12.45
24447-TE	E	3220 point 4 Binding Post and Jumper Kit	10-3/8" X 9-1/8"	2	\$22.95	\$21.95
27027-TE	F	140 Piece 22 AWG Jumper Wire Kit		.3	\$3.95	\$3.49
18103-TE	G	830 point Clear ABS Body	6-1/2" X 2-1/8"	.3	\$4.95	\$3.95

Powered Breadboard

35125 TE | \$99.95 ea

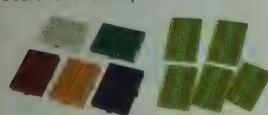
★ +/- 0-15VDC
& +5V Supplies**Powered Breadboard**

30176 TE | \$10.95 ea

**Proto Board Special**

33353 MI | \$6.95 ea

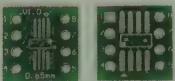
5 pieces of 170 tie point breadboard and 5 pieces of 170 tie point proto board for one low price.

**230 Tie Point Mini Solderless Breadboard, Unmounted**

18862 TE | \$2.95 ea

**8 Pin SOP Adapter Board Double Sided**

31456 PB | \$0.59 ea

**10 Pin SOP Adapter Board Double Sided**

31457 PB | \$0.59 ea

**14 Pin SOP Adapter Board Double Sided**

31864 PB | \$0.69 ea

**16 Pin SOP Adapter Board Double Sided**

31459 PB | \$0.69 ea

**20 Pin SOP Adapter Board Double Sided**

31460 PB | \$0.69 ea

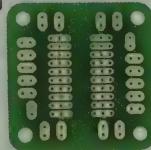
**24 Pin SOP Adapter Board Double Sided**

31461 PB | \$0.99 ea

20 pin IC Proto Board

32540 PB | \$1.00 ea

Single Sided .062" FR-4 board,.1" pad spacing

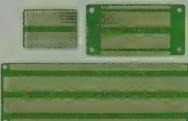
**Proto Boards**

32891 PB 170 holes | \$1.00 ea

32892 PB 276 holes | \$1.95 ea

32893 PB 830 holes | \$4.95 ea

Based on the breadboard pattern

**24 Pin SOP Adapter Board Double Sided**

31462 PB | \$0.89 ea

**28 Pin SOP Adapter Board Double Sided**

31462 PB | \$0.89 ea

**Proto Board Set of 4**

32065 PB | \$2.95 set

FR-4 boards with 0.1" spacing. One each of the following: 30123 PB, 31091 PB, 31169 PB and 31253 PB.

**FR-4 Proto Boards**

Double sided, .1" pad spacing, Plated through copper pads. Sold Individually

30123 PB | 2cm X 8cm | \$0.99 ea

31091 PB | 4cm X 6cm | \$1.29 ea

31253 PB | 3cm X 7cm | \$1.19 ea

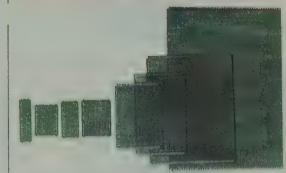
31169 PB | 5cm X 7cm | \$1.79 ea

32011 PB | 8cm X 12cm | \$4.95 ea

320212 PB | 9cm X 15cm | \$5.95 ea

320123 PB | 15cm X 20cm | \$9.95 ea

32014 PB | 20cm X 30cm | \$19.95 ea

**Phenolic Proto Boards**

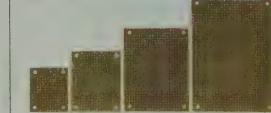
Single sided, .1" pad spacing, unplated copper pads. Sold Individually

15918 PB | 44mm X 39mm | \$0.59 ea

16227 PB | 60mm X 50mm | \$0.79 ea

15914 PB | 82mm X 64mm | \$1.10 ea

15912 PB | 110mm X 80mm | \$1.75 ea



Toll Free Orders: 1-800-652-6733



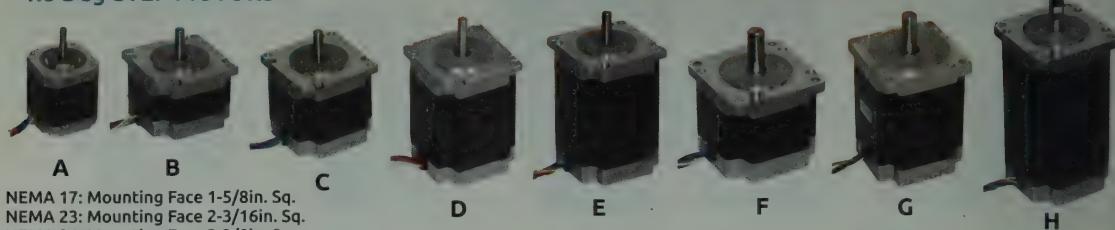
\$6.95*

FLAT RATE SHIPPING

*Restrictions Apply

17

1.8 Deg STEP MOTORS



NEMA 17: Mounting Face 1-5/8in. Sq.

NEMA 23: Mounting Face 2-3/16in. Sq.

NEMA 34: Mounting Face 3-3/8in. Sq.

Note: * Indicated Step Motor has a DUAL SHAFT.

Additional Information Available On our website

STOCK #	FIG.	NEMA	VDC	A	W	HLD. TORQ.	P/N	TYPE	LENGTH (BODY)	SHAFT	WT.	1EA
18735-MS	A	17	5.2V	.5	10.5	1.5Kg/cm	42BHH34-050A-18	6 lead	1-3/8"	5 X 17mm	.5	\$9.95
18733-MS	A	17	12V	.31	38	1.6Kg/cm	42BHH34-031A-18G	6 lead	1-3/8"	5 X 17mm/Flat	.5	\$9.95
17453-MS	A	17	5.2V	1	5.2	3.2Kg/cm	42BHH48-100E-24	6 lead	2"	5 X 22mm	.84	\$15.95
18734-MS	A	17	12V	.4	30	3.2Kg/cm	42BHH48W-040B-24	6 lead	1-7/8"	5 X 22mm	.76	\$10.95
18686-MS	B	23	2.8V	2	1.4	4.2Kg/cm	57BHH41-200B-21	6 lead	1-5/8"	6.35 X19mm	1	\$17.95
17454-MS	B	23	24V	.34	.71	4.4Kg/cm	57BHH41-034A-21	6 lead	1-5/8"	6.35 X19mm	1	\$17.95
17455-MS	C	23	6.2V	1	6.2	9Kg/cm	57BHH56-10D-21N	6 lead	2-3/8"	6.35 X19mm	1.6	\$14.95
18728-MS	C*	23	6.2V	1	6.2	9Kg/cm	57BHH56-10D-21DH	6 lead	2-3/8"	6.35 X20mm/Dual	1.6	\$15.95
18189-MS	D	23	5.7V	2.3	2.5	16Kg/cm	57BHH76-200B-25C	6 lead	3"	6.35 X25mm	2.3	\$23.95
18729-MS	D*	23	5.7V	2.3	2.5	16Kg/cm	57BHH76-200B-26DA	6 lead	3"	6.35 X24mm/Dual	2.4	\$23.95
18687-MS	D	23	4.5V	2.5	1.8	18Kg/cm	57BHH76-250E-21G	6 lead	3"	6.35 X25mm	3.4	\$24.95
17456-MS	E	23	3.6V	3	1.2	21Kg/cm	57BHH82-300E-21U	6 lead	3-1/4"	6.35 X19mm	2.6	\$34.95
17458-MS	F	34	3.0V	3	1	23Kg/cm	86BHH76-400C-35	6 lead	3"	13 X35mm	4.7	\$54.95
18190-MS	G	34	6.0VDC	2	3	48Kg/cm	86BHH114-200C-37BS	8 lead	4-17/32"	13 X35mm	8.1	\$68.00
17457-MS	H	34	7.8VDC	2	3.9	63Kg/cm	86BHH150-200A-37BS	8 lead	6"	13 X35mm	11	\$79.95

3A Step Motor Driver

31306 MS | \$14.95 ea



3.5A Step Motor Driver

32383 MS | \$19.95 ea



4A Step Motor Driver

32381 MS | \$17.95 ea



Basic Step Motor Controller

34114 MS
\$12.95 ea

18

6.95*

FLAT RATE SHIPPING



*Restrictions Apply

Linear Drive Belt Kit

32387 MI | \$8.95 ea



GT2X 6mm

Step Motor Bracket

32431 MS | Nema 17 | \$4.95 ea
32379 MS | Nema 23 | \$4.95 ea
32432 MS | Nema 34 | \$8.95 ea

1.5A Step Motor Driver

18187 MS | \$54.90 ea

Free Power Supply



AC Powered Step Motor Driver

18727 MS | \$169.95 ea



6A Step Motor Driver

18188 MS | \$96.00 ea



Flexible Helical Cut Couplers

Aluminum Dual Set Screws



33600 HD | 3mm to 4mm | \$3.95 ea

33601 HD | 3mm to 6mm | \$3.95 ea

33602 HD | 3mm to 1/4" | \$3.95 ea

33603 HD | 4mm to 5mm | \$3.95 ea

33604 HD | 4mm to 6mm | \$3.95 ea

33605 HD | 4mm to 1/4" | \$3.95 ea

33606 HD | 4mm to 8mm | \$3.95 ea

33607 HD | 4mm to 10mm | \$3.95 ea

33608 HD | 5mm to 6mm | \$3.95 ea

33609 HD | 5mm to 1/4" | \$3.95 ea

33610 HD | 5mm to 8mm | \$3.95 ea

33611 HD | 6mm to 6mm | \$3.95 ea

33612 HD | 6mm to 1/4" | \$3.95 ea

33613 HD | 6mm to 8mm | \$3.95 ea

33614 HD | 6mm to 10mm | \$3.95 ea

33615 HD | 1/4" to 1/4" | \$3.95 ea

33616 HD | 1/4" to 8mm | \$3.95 ea

33619 HD | 7mm to 7mm | \$3.95 ea

33620 HD | 7mm to 8mm | \$3.95 ea

33621 HD | 8mm to 8mm | \$3.95 ea

33622 HD | 8mm to 10mm | \$3.95 ea

33623 HD | 10mm to 10mm | \$3.95 ea

Rigid Shaft Coupler

33557 HD | 5mm to 5mm | \$2.95 ea

33560 HD | 5mm to 8mm | \$2.95 ea



300mm Leadscrew Step Motor

33515 MS | \$29.95 ea

T8x2-4 Start

NEMA 17 4 lead
2.7V/1.33 Ohm Motor

"Z" Axis 3D Printer Motor Assembly

33998 MI | \$69.95 ea

NEMA 17 4 lead
2.2V/1.7 Ohm Motor
.02mm slide movement/step

350mm Leadscrew Kit

32396 HD | \$19.95 ea

T8x2-1 Start

With Bearing Blocks & 8mm
to 6mm Shaft Coupling

Toll Free Orders: 1-800-652-6733

Step Motors

Visit www.mpja.com For Complete Product Line

2.7V 1.8 Deg NEMA 23 Step Motor

30460 MS | \$7.49 ea

4 Wire Leads



2.3V 1.8 Deg NEMA 23 Step Motor

31392 MS
\$18.95 ea

6 Wire Leads



9V 1.8 Deg NEMA 23 Step Motor

32493 MS | \$12.95 ea

4 Wire Leads



3V 1.8 Deg NEMA 23 Step Motor

18854 MS | \$14.95 ea

6 Wire Leads



2.5V 1.8 Deg NEMA 23 Step Motor

31394 MS | \$8.95 ea

6 Wire Leads



12V Gear Head Step Motor

34480 MS | \$29.95 ea



USED 24V 1.8 Deg NEMA 23 Step Motor

15837 MS | \$8.95 ea

5 Wire Leads



3.84V 1.8 Deg NEMA 23 Step Motor

17607 MS | \$9.95 ea

5 Wire Leads



10.4V 1.8 Deg NEMA 17 Step Motor

33449 MS | \$10.95 ea

4 Wire Leads with Mtg.
Bracket and
8mm Coupler



10.4V 1.8 Deg NEMA 17 Step Motor

33448 MS | \$10.95 ea

4 Wire Leads with Mtg.
Bracket and
1/4" Coupler



10.4V 1.8 Deg NEMA 17 Step Motor

33358 MS | \$12.95 ea

Includes
COG Belt
and Gear
set.



10.4V 1.8 Deg NEMA 17 Step Motor

33356 MS | \$7.95 ea

4 Wire Leads



3.5V 3.75 Deg NEMA 17 Step Motor

32101 MS | \$5.95 ea

4 Wire Leads



5V Leadscrew Micro Step Motor

32378 MS | \$1.95 ea

4 P.C. Mount Leads



12V 1.8 Deg NEMA 14 Step Motor

18688 MS | \$13.75 ea

6 Wire Leads



12V 1.8 Deg NEMA 14 Step Motor

18689 MS | \$13.75 ea

4 Wire Leads



0.72 Deg Penta Drive NEMA 11 Step Motor

31130 MS | \$5.95 ea

5 Phase Bi-Polar



56V Gear Head Step Motor

18891 MS | \$14.95 ea

4 Wire Leads



2.66V .1 Deg NEMA 11 Step Motor

31129 MS | \$9.95 ea

6 Wire Leads



1.8 Deg NEMA 17 Step Motor

19533 MS | \$9.95 ea

4 Wire Leads



5V NEMA 23 Step Motor

35032 MS | \$12.95 ea

6 Wire Leads

1.8Deg.



12V 3.75 Deg Step Motor

31393 MS | \$1.95 ea

4 Wire Leads



Linear Actuator

34750 MS | \$19.95 ea

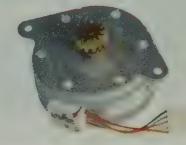
Bi-Phase Encoder



24V 7.5 Deg Step Motor

18368 MS | \$3.95 \$1.95 ea

5 Wire Leads



Toll Free Orders: 1-800-652-6733



\$6.95*

FLAT RATE SHIPPING



*Restrictions Apply

19

**12VDC Gearmotors**

37 mm dia X 51mm long motor plus 6mm dia. X 14mm shaft, bronze bearings. Six M3x0.5 mounting holes in front. Solder terminals

32203 MD | 5 RPM | \$12.95 ea
 32204 MD | 30 RPM | \$12.95 ea
 32205 MD | 50 RPM | \$12.95 ea
 32206 MD | 100RPM | \$12.95 ea

37mm Motor Bracket

33574 MD | \$3.95 ea

**12VDC Gearmotor**

17 mm dia X 45mm long motor plus 3mm dia. X 8mm shaft, bronze bearings. Two M2x0.4 mounting holes in front. Solder terminals

32208 MD | 25 RPM | \$12.95 ea
 32209 MD | 55 RPM | \$12.95 ea

4.5VDC 140RPM Gear Head Motor

19285 MD | \$9.95 ea

**3VDC 37RPM Micro Gear Head Motor**

31251 MD | \$7.25 ea

All Metal Gears

3mm Dia. Shaft

3VDC Flat Vibrator Motor

32115 MD | \$1.95 ea

**3-6VDC Motor & Tire**

32064 MD | \$3.95 ea

**24VDC Leadscrew Gear Head Motor**

32681 MD | \$19.95 ea

**6-24VDC 20Amp Max Motor Speed Control**

31566 MD

\$8.95 ea

**12VDC ACME Gear Motor**

32575 MD | \$19.95 ea

**24VDC Gear Head Motor**

32684 MD | \$19.95 ea

**12-80VDC 20Amp Max Motor Speed Control**

33377 MD | \$15.95 ea

**3VDC Mini Motor**

34668 MD | \$0.79 ea

**36VDC Gear Head Motor**

31474 MD | \$12.95 ea

**Motor Speed Control with Reversing Switch**

32678 MD | \$8.95 ea

**SG90 Servo Motor**

31002 MD | \$5.95 ea

**Hi-Torque Servo Motor**

34108 MD | \$69.95 ea

**6VDC Gear Head Motor**

32176 MD | \$34.95 ea

Bi-Phase Sensor

**USED 24VDC 45 RPM Gear Head Motor with Wheel**

17971 MD

\$9.95 ea

**Speed Control/LED Dimmer Module**

12-24VDC 30A

33920 MI

\$14.95 ea

**6.5-20VDC 10Amp Max Motor Speed Control**

33371 MD | \$8.95 ea

**8-16VDC Mini Motor**

18298 MD | \$0.99 ea

**Motor Speed Control with Display**

6-30VDC 8A

32673 MD

\$14.95 ea

**Remote Control DC Motor Reversing Switch**

33003 MD | \$24.95 ea

12-36VDC

60W max Load

"Fwd/Off/Rev"



Die Cast Aluminum Boxes

Aluminum alloy with cover & M3.5 stainless steel screws included. Internal guides on ends & sides for holding PC boards. Natural Bare Aluminum Finish. Listed below are the outside dimensions.



STOCK #	L"	W"	H"	WT.	1EA
16281 BX	2.36"	2.17"	1.18"	.18	\$3.95
16282 BX	3.15"	2.17"	.98"	.2	\$4.25
16283 BX	3.50"	1.37"	1.18"	.16	\$3.95
16284 BX	4.49"	2.52"	1.18"	.28	\$5.95
16285 BX	4.49"	2.52"	2.17"	.36	\$7.49
16286 BX	4.49"	3.50"	2.17"	.50	\$9.25
16287 BX	4.72"	3.94"	1.38"	.56	\$8.95
16288 BX	5.51"	3.94"	2.95"	.86	\$13.85
16289 BX	6.50"	5.00"	2.95"	1.12	\$18.55
16290 BX	6.73"	4.76"	2.17"	.96	\$17.51
16291 BX	6.73"	4.76"	4.17"	1.40	\$19.95
16292 BX	8.74"	5.75"	2.17"	1.44	\$22.91
16293 BX	8.74"	5.75"	4.17"	2.80	\$28.71
16294 BX	9.84"	9.84"	3.94"	3.50	\$51.88
16295 BX	10.83"	6.89"	2.56"	2.08	\$32.91

Sealed Plastic Boxes

Gray ABS plastic project boxes with lids. Tongue & groove sealing meet IP-65 & NEMA 4 requirements. 4 standoffs on base for holding PC boards. Includes stainless cover screws & neoprene gasket material. **17407 NO Internal Guides**

Listed below are the outside dimensions.



STOCK #	L"	W"	H"	WT.	1EA
17392 BX	4.53"	3.54"	2.17"	.35	\$6.95
17393 BX	6.73"	4.76"	2.17"	.54	\$9.95
17395 BX	6.73"	4.76"	3.15"	.73	\$12.95
17396 BX	7.68"	3.15"	2.17"	.49	\$8.95
17398 BX	10.43"	7.28"	3.74"	1.5	\$24.95
17402 BX	7.87"	4.72"	2.95"	.8	\$14.95
17405 BX	9.45"	6.3"	4.72"	1.5	\$20.95
17406 BX	11.81"	9.06"	4.37"	2.4	\$35.95
17407 BX	14.17"	7.87"	5.91"	3.1	\$33.95

19" Plastic Rack Mount Cabinets

Black plastic rack mount clamshell cases. Vented sides with removable front & rear panels. Internal standoffs on top & bottom. Assembly required.

NOTE: Not Available For Air Shipments.

Measurements below are for Internal Space



STOCK #	DESC	W"	D"	H"	WT.	1EA
17086 BX	1U	16-3/16"	7-11/16"	1"	1.9	\$24.95
17087 BX	2U	16-3/16"	7-11/16"	2-7/8"	2.5	\$34.95
17088 BX	3U	16-3/16"	7-11/16"	4-1/2"	3.0	\$39.95

19" Metal Rack Mount Cabinets

19in. rack mount cases. 1/8in. Aluminum Front Panel with steel chassis & covers. Satin black textured paint. **NOTE: Not Available For Air Shipments**



STOCK #	DESC	W"	D"	H"	WT.	1EA
17811 BX	1U	19"	11.8"	1.75"	1.9	\$34.95
17812 BX	2U	19"	11.9"	3.5"	2.5	\$39.95

Rubber Feet

31471 BU | \$3.50 ea

3M P/N SJ6316 peel-n-stick rubber feet. Sheet of 24 Gray bumpers 7/8" in diameter X 3/8" tall. Ideal as shock absorbers, equip. feet

Desktop Instrument Case 33008 BX | \$89.00 ea



Toll Free Orders: 1-800-652-6733



\$6.95* FLAT RATE SHIPPING

*Restrictions Apply

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Plastic Project Cabinets

Black plastic project boxes with flat lids. Internal guides on ends & sides for holding PC boards. Includes cover screws. Note: **15881-BX has NO Internal Guides**. Outside dimensions are listed below.



STOCK #	L"	W"	H"	WT.	1EA
15522 BX	3"	2"	1.16"	.07	\$2.49
15523 BX	4"	3"	1.6"	.13	\$2.95
15881 BX	4.41"	2.24"	.87"	.08	\$2.35
15518 BX	5"	2.5"	1.75"	.17	\$3.49
32652 BX	5.9"	3.9"	2.36"	.27	\$4.35
15883 BX	7.25"	4.5"	2.52"	.50	\$7.49

Plastic Project Cabinets

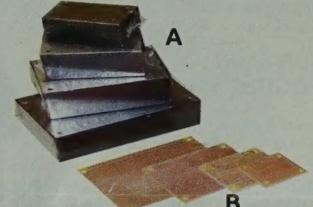
Black plastic project boxes with deep lids. Internal guides on ends & sides for holding PC boards. Includes cover screws. Outside dimensions are listed below.



STOCK #	L"	W"	H"	WT.	1EA
15885 BX	3.74"	1.89"	1.46"	.11	\$3.35
15886 BX	4.53"	2.36"	1.73"	.15	\$3.75
15520 BX	5.3"	3"	1.9"	.25	\$4.95
15887 BX	6.3"	3.74"	2.44"	.33	\$5.95
15888 BX	7.6"	4.53"	2.95"	.45	\$8.95
15521 BX	8.8"	5.5"	3.6"	.75	\$8.95

Plastic Project Cabinets & Perf Boards

Black plastic project boxes with Aluminum lids. Internal posts for holding PC boards. Includes cover & PC board screws. Solderable phenolic Perf. Board has .1" hole grid pattern, copper one side. All dimensions are approx.



STOCK #	FIG.	SIZE	L"	W"	D/T"	WT.	1EA
15911 BX	A	Large	5-1/4"	3-1/4"	1-9/16"	.22	\$5.25
15912 PB	B	Large	4-5/16"	3-1/8"	1/16"	.04	\$1.75
15913 BX	A	Medium	4-1/8"	2-5/8"	1-9/16"	.15	\$3.50
15914 PB	B	Medium	3-1/8"	2-1/2"	1/16"	.02	\$1.10
15915 BX	A	Small	3-5/16"	2-1/8"	1-3/8"	.11	\$2.75
16227 PB	B	Small	2-5/16"	1-15/16"	1/16"	.02	\$0.79
15917 BX	A	Mini	2-11/16"	1-11/16"	1-3/16"	.08	\$2.50
15918 PB	B	Mini	1-3/4"	1-1/2"	1/16"	.009	\$0.59

Extruded Aluminum Enclosures

Extruded anodized 6063 aluminum instrument cases with black powder coated, cast aluminum end caps. Internal slots for holding PC board(s), 4 peel-n-stick rubber feet & stainless End Cap screws, IP66 rated when using the accessory Gaskets (sold separately) View Online additional accessories.



STOCK #	COLOR	L"	W"	H"	1EA
32740 BX	Silver	7-3/4"	4-9/16"	2"	\$19.95
32741 BX	Red	7-3/4"	4-9/16"	2"	\$19.95
32742 BX	Blue	7-3/4"	4-9/16"	2"	\$19.95
32743 BX	Black	7-3/4"	4-9/16"	2"	\$19.95

9.3" X 6.2" X 3.5" Waterproof Case

**17813 BX
\$17.95 ea**

**12" X 7.4" X 4.4" Waterproof Case**

**18351 BX
\$29.95 ea**



Mini Toggle Switch

Mini toggle switch, Mounts in a 1/4" hole.
Solder tab terminals.
Rated 6 Amps @ 125VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA
25005-SW	SPST	On-Off	\$0.75
25006-SW	SPDT	On-On	\$0.39
25101-SW	SPDT	On-Off-On	\$0.45
25009-SW	SPDT	(Mom)-Off-(Mom)	\$0.58
25104-SW	DPDT	On-Off-On	\$0.59
25106-SW	DPDT	(Mom)-Off-(Mom)	\$0.79

Mini Toggle Switch

Mini toggle switch, Mounts in a 1/4" hole. Solder tab terminals.
Rated 5 Amps @ 125VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA
16071-SW	SPDT	On-(Mom)	\$0.58
16072-SW	SPDT	On-Off-(Mom)	\$0.58
16073-SW	DPDT	On-(Mom)	\$0.69
16074-SW	DPDT	On-Off-(Mom)	\$0.69
16075-SW	3PDT	On-On	\$0.74
16076-SW	3PDT	On-Off-On	\$0.88
16077-SW	4PDT	On-On	\$1.42
16078-SW	4PDT	On-Off-On	\$1.75

SUB-MINI TOGGLE SWITCH

Sub-Mini toggle switch, Mounts in a 1/8" hole with Solder tabs.
Rated 1 Amp @ 250VAC.



WT: .02

Lighted Pushbutton Switch

Momentary or Alternate Action (Push ON-Push-OFF), SPDT, Full size, metal body, Pushbutton switch with LED lighted Ring around Button. Rated 5A @ 250VAC

Dia: 7/8" Mtg: 3/4" hole L: 1-1/2" O/A WT: .04

STOCK #	DESC.	1EA
31370-SW	Red Momentary Switch	\$4.95
31371-SW	Green Momentary Switch	\$4.95
31372-SW	Blue Momentary Switch	\$4.95
31375-SW	Red Alternate Action Switch	\$5.95
31376-SW	Green Alternate Action Switch	\$5.95
31377-SW	Blue Alternate Action Switch	\$5.95

Pushbutton Switch

IP-67 rated, CMP #MP195-F10, Flat Button, Metal Body, SPST NO, Pushbutton switch. Mounts in a 3/4" hole.

Dia: 7/8" Mtg: 3/4" hole L: 1-1/16" O/A WT: .04

STOCK #	DESC.	1EA
32091-SW	Red Momentary P/B Switch	\$4.95
32092-SW	Green Momentary P/B Switch	\$4.95
32093-SW	Blue Momentary P/B Switch	\$4.95
32094-SW	Gold Momentary P/B Switch	\$4.95
32095-SW	Black Momentary P/B Switch	\$4.95

Full Size 15A Toggle Switch

.25" Quick Connect terminals.

Standard size toggle switch, Mounts in a 15/32" hole. Rated: 10 Amps @ 250VAC. 15A @125VAC.



WT: .03

STOCK #	STYLE	DESC.	1EA
18371-SW	SPDT	On-None-On	\$1.95
18372-SW	SPDT	(Mom)-Off-(Mom)	\$1.95
18373-SW	DPDT	On-None-On	\$1.95
18374-SW	DPDT	On-Off-On	\$1.95
18375-SW	DPDT	(Mom)-Off-(Mom)	\$1.95

Full Size 15A Toggle Switch

Standard size toggle switches,
Mounts in a 1/2" hole. Rated: 10
Amps @ 250VAC. 15A @125VAC.
Screw terminals.



WT: .08

STOCK #	STYLE	DESC.	1EA
16081-SW	SPDT	On-None-On	\$0.88
16083-SW	SPDT	On-None-(Mom)	\$1.05
16085-SW	SPDT	(Mom)-Off-(Mom)	\$1.05
16088-SW	DPDT	On-None-(Mom)	\$1.49
16089-SW	DPDT	On-Off-(Mom)	\$1.49
16090-SW	DPDT	(Mom)-Off-(Mom)	\$1.49

Heavy Duty 20A Toggle Switches

Standard size toggle switches.
Mounts in a 1/2" hole.
Rated: 15 Amps @ 250VAC. 20A
@125VAC. Screw terminals.



WT: .03

STOCK #	STYLE	DESC.	1EA
33240-SW	SPST	On-Off	\$1.95
33243-SW	SPDT	On-On	\$1.95
33245-SW	SPDT	On-Off-On	\$2.50
12219-SW	DPST	On-Off	\$1.95
12221-SW	DPDT	On-Off-On	\$2.50

Misc. Toggle Switches

25001-SW



25002-SW



12223-SW

Full size toggle switch, Amp Ratings are @ 125VAC.
5001: Wire leads 5002: Solder tab 5004 & 12223: Screw
Mtg. Hole: 1/2" hole WT: .07

STOCK #	STYLE	DESC.	AMP	1EA
25002-SW	SPST	On-None-Off	4	\$0.75
25001-SW	SPST	On-None-Off	6	\$1.25
12223-SW	SPST	On-None-Off	10	\$1.25

Full Size Toggle Safety Covers

Plastic, Snap action safety covers for standard (1/2") Dia.
sized toggle switches. Cover must be opened to activate
switch. Closing cover forces switch to original position.

WT: .03

STOCK #	DESC.	1EA
16100-SW	Red Safety Cover	\$0.69
16105-SW	Black Safety Cover	\$0.69
16106-SW	Clear Safety Cover	\$0.69
16108-SW	Transp. Red Safety Cover	\$0.69

Push Button Switch

SPST Mounts in a 1/4" hole
N.O. = Normally Open
N.C. = Normally Closed

25019 SW | N.O. Red | \$0.29 ea
25020 SW | N.C. Black | \$0.29 ea

Push Button Switch

16093 SW | \$2.02 ea

SPST Normally Open
Mounts in a 3/4" hole.
Metal Face.

Foot Switch

18150 SW | \$5.95 ea

SPST Normally
Open Metal
pedal
with 1 meter
pigtail.

Metal X-Y Keypad

32340 SW
\$4.95 ea

3 X 4 pad with
X-Y matrix

**X-Y Key Pads**

31045 SW | 3x4 pad | \$2.95 ea
31046 SW | 4x4 pad | \$2.95 ea

Peel and stick
keypad with
bubble type
buttons

**Plastic Float Switch**

30453 SW
\$3.95 ea

Single pole
5 positions

**SPST Rotary Switch**

32597 SW | \$0.99 ea

Single pole
5 positions
Available

**BCD Thumb Switch**

32083 SW | \$0.75 ea

0-9 push button
BCD switch.
End plates
Available

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260VAC 20A with internal CT. Volt, Current, Power and Energy Display



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Dual Display AC LED Panel Meter

34797 ME | \$14.95 ea

300VAC 50A with Built-in CT.

Voltage and Current Display



Dual Display AC LED Panel Meter

34745 ME | \$16.95 ea

300VAC 100A with external CT. Voltage and Current Display



Dual Display AC LED Panel Meter

34746 ME | \$19.95 ea

300VAC 200A with external CT. Voltage and Current Display



3 Digit 60-300VAC LED Panel Meter

30220 ME | Red | \$6.95 ea

Snap-in self powered LED meter, 1 Volt resolution, 0.56" Character height. 6" wire leads sine wave only!



12V Battery System Monitor

34899 ME | \$19.95 ea

Color Bargraph Display

Fits in a 29mm Mounting Hole



Dual Display AC LED Panel Meter

33407 ME | \$22.95 ea

Din Rail Mount
300VAC 100A with internal CT. Voltage and Current Display



Multi Function AC LED Panel Meter

31567 ME | \$19.95 ea

600VAC 100A with external CT. Voltage, Current and Frequency Display Requires external 12VDC power source



Dual Display AC LCD Panel Meter

31496 ME | \$17.95 ea

300VAC 100A with external CT. Voltage and Current Display



10-199Hz Frequency AC LCD Panel Meter

32406 ME | \$14.95 ea



12VDC LED Panel Meter with Bar Graph

32322 ME | \$12.95 ea



Dual Display DC LED Panel Meter

30303 ME | \$12.95 ea

Volt and Current Display
4.5-30VDC
0-10A with internal Shunt.



Dual Display DC LED Panel Meter

32063 ME | \$17.95 ea

Volt and Current Display
4.5-30VDC
0-100A external Shunt.



3.5-30VDC 5 Digit Panel Meter

32711 ME | \$12.95 ea



Multi Function DC LCD Panel Meter

32541 ME | \$17.95 ea

100VDC 20A with internal Shunt. Volt, Current, Power and Energy Display



Multi Function DC LCD Panel Meter

32542 ME | \$18.95 ea

100DC 100A with external Shunt. Volt, Current, Power and Energy Display



Mini 3 Digit 4.5-30VDC LED Panel Meter

33065 ME | Red | \$5.95 ea

33066 ME | Green | \$6.95 ea

33067 ME | Blue | \$6.95 ea

LED self powered meter 0.1/0.01 Volt resolution auto range 0.56" Character height 5" wire leads. With Bezel.



Mini 3 Digit 4.5-30VDC LED Panel Meter

19598 ME | Red | \$4.95 ea

19599 ME | Blue | \$4.95 ea

19600 ME | Green | \$4.95 ea

32961 ME | White | \$5.95 ea

LED self powered meter 0.1 Volt resolution .375" Character height 5" wire leads. No Bezel.



0-5Amp DC LED Panel Meter

32924 ME | \$8.95 ea

Requires a separate 4.5V-28VDC Power Supply for meter



Mini 3 Digit 0-100VDC LED Panel Meter

32321 ME | \$3.95 ea

Requires a separate 2.5V-30VDC Power Supply for meter



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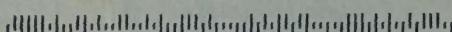
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35058 TE | Green LED
35059 TE | Blue LED



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8 Digit 100KHz-2.4Ghz Frequency Meter

34112 TE | Blue LED
34280 TE | Green LED
34279 TE | Red LED



5VDC Power

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35061 MI | 5Kg
34723 MI | 10Kg



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35153 ME | Green LED
35154 ME | Blue LED
35155 ME | Yellow LED
35156 ME | White LED

Panel Frequency Meters 22.8mm Round



\$2.95 ea

35158 ME | Red LED
35159 ME | Green LED
35160 ME | Blue LED
35161 ME | Yellow LED

SVDC 4A Plug Supply 18520 PS | \$6.95 ea



18520 PS | \$6.95 ea

5.5/2.1mm

Stackable Test Leads 2m Long

34609 TE | \$11.95 set



16AWG

12VDC 3A Adapter Power Supply

34445 PS |
\$6.95 ea



5.5/2.1mm

22.8mm Square



\$2.95 ea

35146 ME | Red LED
35147 ME | Green LED
35148 ME | Blue LED
35149 ME | Yellow LED
35150 ME | White LED

22.8mm Square



\$5.95 ea

35170 ME | Red LED
35171 ME | Green LED
35172 ME | Blue LED
35173 ME | Yellow LED
35174 ME | White LED

22.8mm Square



\$2.95 ea

35164 ME | Red LF
35165 ME | Green LED
35166 ME | Blue LED
35167 ME | Yellow LED



*Restrictions Apply

Component Flush Cutters



32824 TL
\$2.49 ea